reviewed 1/17/06 = scan date

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OM nucleic - nucleic search, using sw model

Run on: ~~November 24, 2003,~~ 15:54:12 ; Search time 10684 Seconds
(without alignments)
11525.456 Million cell updates/sec

Title: US-10-058-945-1
Perfect score: 3010
Sequence: 1 attgcggggcttactgcgct.....ccagaaatccctcaaggcgg 3010

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:*
1: gb_ba:*
2: gb_htg:*
3: gb_in:*
4: gb_om:*
5: gb_ov:*
6: gb_pat:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vi:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*

Also searched SEQ ID NO:1 as an OLIGOMER and using the protein, SEQ ID NO:2, in DNA databases. But no better art than found here.

particularly USPAP 2002/0197605 Nakagawa et al.

28: em_un:*
29: em_vi:*
30: em_htg_hum:*
31: em_htg_inv:*
32: em_htg_other:*
33: em_htg_mus:*
34: em_htg_pln:*
35: em_htg_rod:*
36: em_htg_mam:*
37: em_htg_vrt:*
38: em_sy:*
39: em_htgo_hum:*
40: em_htgo_mus:*
41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3010	100.0	320550	1	AP005282	AP005282 Corynebac
2	3010	100.0	349980	6	AX127152	AX127152 Sequence
3	2326.6	77.3	2369	6	AX353377	AX353377 Sequence
4	2326.6	77.3	2369	6	BD106978	BD106978 L-Glutami
5	1578	52.4	1578	6	AX063735	AX063735 Sequence
6	1578	52.4	1578	6	AX469840	AX469840 Sequence
7	1546	51.4	1546	6	AX063737	AX063737 Sequence
8	1455	48.3	1455	6	AX122970	AX122970 Sequence
9	1455	48.3	1455	6	BD165087	BD165087 Novel pol
10	1405.6	46.7	2817	6	AR216136	AR216136 Sequence
11	1405.6	46.7	2817	6	AX137526	AX137526 Sequence
12	1405.6	46.7	2817	6	AX236994	AX236994 Sequence
13	1405.6	46.7	2817	6	AX322482	AX322482 Sequence
14	1405.6	46.7	2817	6	BD013817	BD013817 Novel nuc
15	1294	43.0	300330	1	AP005222	AP005222 Corynebac
16	730	24.3	1971	6	AX707003	AX707003 Sequence
17	615.4	20.4	1869	1	AF326510	AF326510 Corynebac
18	615.4	20.4	1909	6	AR216137	AR216137 Sequence
19	615.4	20.4	1909	6	AX137528	AX137528 Sequence
20	615.4	20.4	1909	6	AX236996	AX236996 Sequence
21	615.4	20.4	1909	6	AX322484	AX322484 Sequence
22	615.4	20.4	1909	6	BD013818	BD013818 Novel nuc
23	609	20.2	609	6	AX064867	AX064867 Sequence
24	609	20.2	609	6	AX469850	AX469850 Sequence
25	513	17.0	513	6	AX122971	AX122971 Sequence
26	513	17.0	513	6	BD165088	BD165088 Novel pol
27	482	16.0	1590	6	AX064869	AX064869 Sequence
28	482	16.0	1590	6	AX066975	AX066975 Sequence
29	482	16.0	1590	6	AX469852	AX469852 Sequence
30	459	15.2	1503	6	AX122968	AX122968 Sequence
31	459	15.2	1503	6	BD165085	BD165085 Novel pol
32	327	10.9	327	6	AX122969	AX122969 Sequence
33	327	10.9	327	6	BD165086	BD165086 Novel pol

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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 14:41:25 ; Search time 750 Seconds
(without alignments)
10833.745 Million cell updates/sec

Title: US-10-058-945-1
Perfect score: 3010
Sequence: 1 attgcggggcttactgcgct.....ccagaaatccctcaaggcgg 3010

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : N_Geneseq_19Jun03:*
1: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1980.DAT:*
2: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1981.DAT:*
3: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1982.DAT:*
4: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1983.DAT:*
5: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1984.DAT:*
6: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1985.DAT:*
7: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1986.DAT:*
8: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1987.DAT:*
9: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1988.DAT:*
10: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1989.DAT:*
11: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1990.DAT:*
12: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1991.DAT:*
13: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1992.DAT:*
14: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1993.DAT:*
15: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1994.DAT:*
16: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1995.DAT:*
17: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1996.DAT:*
18: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1997.DAT:*
19: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1998.DAT:*
20: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA1999.DAT:*
21: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2000.DAT:*
22: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001A.DAT:*
23: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2001B.DAT:*
24: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2002.DAT:*
25: /SIDS1/gcgdata/geneseq/geneseqn-embl/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	3010	100.0	3010	24	AAL48965	C glutamicum otsA
2	3010	100.0	349980	22	AAH68533	C glutamicum codin
3	2326.6	77.3	2369	24	ABK15556	DNA encoding treha
4	1578	52.4	1578	22	AAF71761	Corynebacterium gl
5	1578	52.4	1578	24	ABS65356	DNA encoding C. gl
6	1546	51.4	1546	22	AAF71762	Corynebacterium gl
7	1455	48.3	1455	22	AAH67851	C glutamicum codin
8	1405.6	46.7	2817	22	AAF61246	C. glutamicum ATCC
9	1405.6	46.7	2817	22	AAH49349	C. glutamicum ATCC
10	1405.6	46.7	2817	24	ABA05864	Corynebacterium gl
11	730	24.3	1971	25	ABZ58585	Corynebacterium gl
12	615.4	20.4	1909	22	AAF61247	C. glutamicum ATCC
13	615.4	20.4	1909	22	AAH49350	C. glutamicum ATCC
14	615.4	20.4	1909	24	ABA05865	Corynebacterium gl
15	609	20.2	609	22	AAF72327	Corynebacterium gl
16	609	20.2	609	24	ABS65361	DNA encoding C. gl
17	513	17.0	513	22	AAH67852	C glutamicum codin
18	482	16.0	1590	22	AAF72328	Corynebacterium gl
19	482	16.0	1590	22	AAF68021	Corynebacterium gl
20	482	16.0	1590	24	ABS65362	DNA encoding C. gl
21	459	15.2	1503	22	AAH67849	C glutamicum codin
22	327	10.9	327	22	AAH67850	C glutamicum codin
23	302.4	10.0	1503	22	AAH52074	Mycobacterium tube
24	302.4	10.0	4403765	22	AAI99683	Mycobacterium tube
25	302.4	10.0	4411529	22	AAI99682	Mycobacterium tube
26	276	9.2	37716	23	AAS59553	Propionibacterium
27	230	7.6	891	22	AAF72322	Corynebacterium gl
28	230	7.6	891	24	ABS65357	DNA encoding C. gl
29	130	4.3	768	22	AAH67853	C glutamicum codin
30	118.4	3.9	2430	24	ABS51410	cDNA encoding larv
31	118.4	3.9	2903	23	ABL05149	Drosophila melanog
c 32	118.4	3.9	6435	23	ABL05148	Drosophila melanog
33	112.6	3.7	1500	21	AAZ45000	Synechocystis sp.
34	110	3.7	534720	19	AAV30458	Rhizobium species
35	110	3.7	536165	19	AAV30459	Rhizobium species
c 36	108.6	3.6	534720	19	AAV30458	Rhizobium species
c 37	108.6	3.6	536165	19	AAV30459	Rhizobium species
38	104.2	3.5	303	24	ABN26396	Human ORFX polynuc
39	98.8	3.3	1910	19	AAV02740	S. lepidophylla tr
40	98.8	3.3	3223	19	AAV02739	S. lepidophylla tr
41	94.8	3.1	2695	21	AAA39756	H. polymorpha TPS1
42	94.6	3.1	1534	18	AAV00136	Trehalose-6-phosph
43	94.6	3.1	1534	18	AAV00084	Yeast trehalose-6-
44	94.4	3.1	831	20	AAZ10777	Trehalose-6-phosph
45	92.8	3.1	2829	24	ABZ14682	Arabidopsis thalia

ALIGNMENTS

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 18:28:16 ; Search time 5588 Seconds
(without alignments)
13091.710 Million cell updates/sec

Title: US-10-058-945-1
Perfect score: 3010
Sequence: 1 attgcggggcttactgcgct.....ccagaaatccctcaaggcgg 3010

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:*
1: em_estba:*
2: em_esthum:*
3: em_estin:*
4: em_estmu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_htc:*
9: gb_est1:*
10: gb_est2:*
11: gb_htc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: em_gss_hum:*
18: em_gss_inv:*
19: em_gss_pln:*
20: em_gss_vrt:*
21: em_gss_fun:*
22: em_gss_mam:*
23: em_gss_mus:*
24: em_gss_pro:*
25: em_gss_rod:*
26: em_gss_phg:*
27: em_gss_vrl:*

28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	138.6	4.6	645	12	BM869320	BM869320 mgns004xF
c	2	122	4.1	549	28	AQ399488	AQ399488 mgxb0015E
	3	111.8	3.7	583	9	AI109201	AI109201 GH08323.5
	4	109.6	3.6	404	13	BU644825	BU644825 mgns016xP
	5	100.4	3.3	441	9	AA783493	AA783493 c5f08a1.r
c	6	98.4	3.3	1024	28	AF075787	AF075787 AF075787
	7	92.4	3.1	601	12	BI941513	BI941513 dg20h04.y
	8	91.2	3.0	436	10	BF050405	BF050405 EST435563
	9	90.2	3.0	556	12	BM869415	BM869415 mgns006xI
	10	88.2	2.9	565	12	BI941469	BI941469 dg07a02.y
	11	87.4	2.9	509	12	BM870625	BM870625 mgns011xC
	12	87.4	2.9	604	12	BM871676	BM871676 mgns015xM
	13	86.2	2.9	685	13	BQ514325	BQ514325 EST621740
c	14	86	2.9	463	12	BJ093065	BJ093065 BJ093065
	15	86	2.9	671	12	BJ332362	BJ332362 BJ332362
c	16	84.6	2.8	606	12	BJ094042	BJ094042 BJ094042
c	17	84.6	2.8	608	12	BJ094122	BJ094122 BJ094122
	18	84.6	2.8	882	29	CNS07AEC	AL436474 T3 end of
	19	83.4	2.8	518	6	AU195980	Au195980 Porphyra
	20	83.4	2.8	552	6	AU194261	Au194261 Porphyra
	21	83.2	2.8	507	12	BM361364	BM361364 A00684-R
	22	83	2.8	582	12	BJ328707	BJ328707 BJ328707
	23	82.8	2.8	531	10	BG278090	BG278090 a1d12np.r
	24	82.2	2.7	598	29	CNS079O3	AL435529 T7 end of
	25	81.8	2.7	1040	29	CNS06D5J	AL393389 T3 end of
	26	81.6	2.7	677	14	CB629538	CB629538 OSIIEb05N
	27	81.6	2.7	813	14	CB629539	CB629539 OSIIEb05N
	28	80.8	2.7	660	13	BU873535	BU873535 Q056F03 P
c	29	79.6	2.6	676	28	BZ052416	BZ052416 jnr68f01.
	30	78.8	2.6	612	12	BJ331641	BJ331641 BJ331641
	31	78.4	2.6	540	13	BQ506197	BQ506197 EST613612
	32	77	2.6	615	12	BJ333781	BJ333781 BJ333781
	33	76.4	2.5	588	12	BJ304058	BJ304058 BJ304058
	34	76.2	2.5	735	14	CD458300	CD458300 Fg08_09f0
	35	76	2.5	613	12	BJ329654	BJ329654 BJ329654
c	36	75.8	2.5	739	14	CA932062	CA932062 MTU4TA.P2
	37	75.6	2.5	616	9	AI387759	AI387759 GH18412.5
	38	75.4	2.5	963	29	CNS06G9B	AL397413 T7 end of
	39	74.6	2.5	620	12	BJ339231	BJ339231 BJ339231
	40	74	2.5	597	12	BJ333289	BJ333289 BJ333289
	41	73.8	2.5	482	6	AU194918	Au194918 Porphyra
	42	73.8	2.5	544	6	AU194764	Au194764 Porphyra
	43	73.2	2.4	852	29	CNS06ULN	AL416001 T3 end of
	44	73	2.4	559	14	CD056225	CD056225 HO11J03S
	45	73	2.4	573	12	BJ323574	BJ323574 BJ323574

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OM nucleic - nucleic search, using sw model

Run on: November 24, 2003, 22:24:06 ; Search time 978 Seconds
(without alignments)
10067.526 Million cell updates/sec

Title: US-10-058-945-1
Perfect score: 3010
Sequence: 1 attgcggggcttactgcgct.....ccagaaatccctcaaggcgg 3010

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2172232 seqs, 1635554964 residues

Total number of hits satisfying chosen parameters: 4344464

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description

	1	3010	100.0	3010	13	US-10-058-945-1 Sequence 1, Appli
	2	3010	100.0	3309400	10	US-09-738-626-1 Sequence 1, Appli
	3	2326.6	77.3	2369	10	US-09-895-382-29 Sequence 29, Appl
	4	1455	48.3	1455	10	US-09-738-626-2886 Sequence 2886, Ap
	5	1405.6	46.7	2817	10	US-09-951-536-1 Sequence 1, Appli
	6	1405.6	46.7	2817	10	US-09-963-521-1 Sequence 1, Appli
	7	1405.6	46.7	2817	10	US-09-834-721-1 Sequence 1, Appli
	8	1405.6	46.7	2817	10	US-09-783-388-1 Sequence 1, Appli
	9	1405.6	46.7	2817	11	US-09-951-535-1 Sequence 1, Appli
	10	730	24.3	1971	14	US-10-212-219-1 Sequence 1, Appli
	11	615.4	20.4	1909	10	US-09-951-536-3 Sequence 3, Appli
	12	615.4	20.4	1909	10	US-09-963-521-3 Sequence 3, Appli
	13	615.4	20.4	1909	10	US-09-834-721-3 Sequence 3, Appli
	14	615.4	20.4	1909	10	US-09-783-388-3 Sequence 3, Appli
	15	615.4	20.4	1909	11	US-09-951-535-3 Sequence 3, Appli
	16	513	17.0	513	10	US-09-738-626-2887 Sequence 2887, Ap
	17	459	15.2	1503	10	US-09-738-626-2884 Sequence 2884, Ap
	18	327	10.9	327	10	US-09-738-626-2885 Sequence 2885, Ap
	19	302.4	10.0	1503	10	US-09-712-363-128 Sequence 128, App
	20	130	4.3	768	10	US-09-738-626-2888 Sequence 2888, Ap
	21	110	3.7	536165	11	US-09-939-964-1 Sequence 1, Appli
c	22	108.6	3.6	536165	11	US-09-939-964-1 Sequence 1, Appli
	23	92.8	3.1	2829	10	US-09-938-842A-2487 Sequence 2487, Ap
	24	89.4	3.0	261	9	US-09-867-550-445 Sequence 445, App
	25	82	2.7	2598	10	US-09-938-842A-1646 Sequence 1646, Ap
	26	70.2	2.3	2589	10	US-09-938-842A-1345 Sequence 1345, Ap
	27	68.4	2.3	1389	14	US-10-156-761-3920 Sequence 3920, Ap
	28	68.4	2.3	9025608	14	US-10-156-761-1 Sequence 1, Appli
	29	66.8	2.2	654	15	US-10-307-723-36 Sequence 36, Appl
	30	62.8	2.1	498	12	US-10-259-165-417 Sequence 417, App
	31	62.8	2.1	501	12	US-10-259-165-81 Sequence 81, Appl
	32	62.8	2.1	3414	12	US-10-259-165-329 Sequence 329, App
c	33	54.2	1.8	791	9	US-09-770-445-847 Sequence 847, App
	34	50.4	1.7	2621	8	US-08-779-460B-1 Sequence 1, Appli
	35	44.6	1.5	1098	14	US-10-156-761-2932 Sequence 2932, Ap
c	36	44.6	1.5	9025608	14	US-10-156-761-1 Sequence 1, Appli
	37	44.4	1.5	651	14	US-10-156-761-2671 Sequence 2671, Ap
c	38	40.8	1.4	488	11	US-09-770-961-736 Sequence 736, App
	39	40.2	1.3	256	10	US-09-878-574-9432 Sequence 9432, Ap
	40	39.8	1.3	984	14	US-10-128-714-7296 Sequence 7296, Ap
	41	39.8	1.3	1028	14	US-10-128-714-6296 Sequence 6296, Ap
	42	39.8	1.3	2882	14	US-10-128-714-296 Sequence 296, App
	43	39.8	1.3	3028	14	US-10-128-714-5296 Sequence 5296, Ap
c	44	39.4	1.3	7758	12	US-10-311-455-1076 Sequence 1076, Ap
	45	39.2	1.3	4203	10	US-09-880-107-3422 Sequence 3422, Ap

ALIGNMENTS

RESULT 1
US-10-058-945-1
; Sequence 1, Application US/10058945
; Publication No. US20020192674A1
; GENERAL INFORMATION:
; APPLICANT: HERMANN, Thomas
; APPLICANT: WOLF, Andreas

STN

10/801847
Search Summary

```
=> d his

     (FILE 'HOME' ENTERED AT 11:04:20 ON 17 JAN 2006)

     FILE 'REGISTRY' ENTERED AT 11:04:29 ON 17 JAN 2006
L1             1 S 9030-07-3/RN

     FILE 'CAPLUS' ENTERED AT 11:04:55 ON 17 JAN 2006
L2           285 S 9030-07-3/RN
                 S 9030-07-3/REG#

     FILE 'REGISTRY' ENTERED AT 11:05:26 ON 17 JAN 2006
L3             1 S 9030-07-3/RN

     FILE 'CAPLUS' ENTERED AT 11:05:27 ON 17 JAN 2006
L4           289 S L3
L5          9979 S L4 OR OTSA OR TREHALOSE
L6         15567 S CORYNEFORM OR CORYNEBACTER? OR BREVIBACTERI?
L7           164 S L5 AND L6
L8           326 S L4 OR OTSA
L9            14 S L8 AND L6
L10            9 S L4 AND L6
L11            5 S L9 NOT L10
L12           45 S L7 AND (AMINO (W) ACID)
L13           39 S L12 NOT L9
L14           39 DUP REM L13 (0 DUPLICATES REMOVED)


=> s l9 not l10
L11            5 L9 NOT L10

=> d 1-5

L11  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:676677  CAPLUS
DN   139:304321
TI   Three pathways for trehalose metabolism in Corynebacterium
     glutamicum ATCC 13032 and their significance in response to osmotic stress
AU   Wolf, Andreas; Kraemer, Reinhard; Morbach, Susanne
CS   Institut fuer Biochemie, Universitaet zu Koeln, Cologne, 50674, Germany
SO   Molecular Microbiology (2003), 49(4), 1119-1134
     CODEN: MOMIEE; ISSN: 0950-382X
PB   Blackwell Publishing Ltd.
DT   Journal
LA   English
RE.CNT  42    THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11  ANSWER 2 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:584057  CAPLUS
DN   140:56181
TI   Genetic dissection of trehalose biosynthesis in Corynebacterium
     glutamicum: Inactivation of trehalose production leads to impaired growth
     and an altered cell wall lipid composition
AU   Tzvetkov, Mladen; Klopprogge, Corinna; Zelder, Oskar; Liebl, Wolfgang
CS   Institut fuer Mikrobiologie und Genetik, Georg-August-Universitaet,
     Goettingen, D-37077, Germany
SO   Microbiology (Reading, United Kingdom) (2003), 149(7), 1659-1673
     CODEN: MROBEO; ISSN: 1350-0872
PB   Society for General Microbiology
DT   Journal
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LA English
RE.CNT 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:389348 CAPLUS
DN 139:96782
TI New insights on trehalose: a multifunctional molecule
AU Elbein, Alan D.; Pan, Y. T.; Pastuszak, Irena; Carroll, David
CS Department of Biochemistry and Molecular Biology, University of Arkansas for Medical Sciences, Little Rock, AR, 72205, USA
SO Glycobiology (2003), 13(4), 17R-27R
CODEN: GLYCE3; ISSN: 0959-6658
PB Oxford University Press
DT Journal; General Review
LA English
RE.CNT 109 THERE ARE 109 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:964496 CAPLUS
DN 138:20499
TI Microorganisms with inactivation of genes involved in sugar metabolism as host for production of useful biomolecules
IN Mori, Hideo; Fujio, Tatsuro; Nishihara, Masao
PA Kyowa Hakko Kogyo Co., Ltd., Japan
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002101027	A1	20021219	WO 2002-JP5199	20020529
PRAI JP 2001-159841	A	20010529		

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:213630 CAPLUS
DN 135:1077
TI Secretion and degradation of L-threonine in Corynebacterium glutamicum
AU Ziegler, Petra
CS Germany
SO Berichte des Forschungszentrums Juelich (2000), Juel-3816, i-xii, 1-130
CODEN: FJBEE5; ISSN: 0366-0885
DT Report
LA German
RE.CNT 92 THERE ARE 92 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d l14 1-39 an ti au so

L14 ANSWER 1 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1331381 CAPLUS
TI Genetic engineering of Corynebacterium glutamicum for enhanced lysine production
IN Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan; Kroeger, Burkhard; Kiefer, Patrick; Heinzle, Elmar; Wittmann, Christoph
SO PCT Int. Appl., 90 pp.
CODEN: PIXXD2

L14 ANSWER 2 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1171544 CAPLUS
DN 143:427356
TI Apparatus and method for transdermal delivery of multiple vaccines
IN Trautman, Joseph C.; Daddona, Peter E.; Cormier, Michel J. N.
SO PCT Int. Appl., 47 pp.
CODEN: PIXXD2

Filing Date 2004/12/17 ⇒ D L1

L14 ANSWER 3 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:571006 CAPLUS
DN 143:95916
TI Fermentative production of lysine by genetically engineered Corynebacterium glutamicum
IN Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan; Kroeger, Burkhard; Kiefer, Patrick; Heinzle, Elmar; Wittmann, Christoph
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2

Filing Date 2004/12/17 ⇒ D L2

L14 ANSWER 4 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1077903 CAPLUS
DN 143:373324
TI Apparatus and method for transdermal delivery of influenza vaccine
IN Maa, Yuh-Fun; Sellers, Scott; Matriano, James; Ramdas, Asha
SO U.S. Pat. Appl. Publ., 35 pp.
CODEN: USXXCO

L14 ANSWER 5 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:614580 CAPLUS
DN 143:139175
TI Frequency-assisted transdermal agent delivery method and system
IN Chan, Keith T.; Cormier, Michel J. N.; Lin, WeiQi
SO U.S. Pat. Appl. Publ., 24 pp.
CODEN: USXXCO

L14 ANSWER 6 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:453660 CAPLUS
DN 143:13290
TI Ultrasound assisted transdermal vaccine delivery method
IN Cormier, Michel J. N.; Lin, Weiqi; Widera, Georg
SO U.S. Pat. Appl. Publ., 27 pp.
CODEN: USXXCO

L14 ANSWER 7 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1089800 CAPLUS
DN 143:341757
TI Sequences of a novel Corynebacterium glutamicum trehalose synthase gene and use
IN Wei, Yutuo; Huang, Ribo; Meng, Jianzong; Lu, Fushen; Pang, Zhongwen; Zhu, Qixia; Chen, Fazhong; Luo, Zhaofei; Lu, Yunkun; Wang, Qingyan; Huang, Kun
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 14 pp.
CODEN: CNXXEV

L14 ANSWER 8 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:1247288 CAPLUS
TI Cloning and identification of novel gene encoding trehalose synthase from Corynebacterium glutamicum
AU Wei, Yutuo; Zhu, Qixia; Luo, Zhaofei; Chen, Fazhong; Wang, Rong; Huang, Ribo
SO Gongye Weishengwu (2005), 35(2), 1-6
CODEN: GOWEEK; ISSN: 1001-6678

L14 ANSWER 9 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:548565 CAPLUS
DN 142:214213
TI Functional analysis of essential the 2-component signal transduction system CgtSR4 of Corynebacterium glutamicum
AU Wessel, Mirja
SO Berichte des Forschungszentrums Juelich (2004), Juel-4129, i-xiv, 1-140
CODEN: FJBEE5; ISSN: 0944-2952

L14 ANSWER 10 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:556935 CAPLUS
DN 141:152661
TI Regulation due to branched chain amino acids in Corynebacterium glutamicum
AU Lange, Christian
SO Berichte des Forschungszentrums Juelich (2004), Juel-4124, i-ix, 1-128
CODEN: FJBEE5; ISSN: 0944-2952

L14 ANSWER 11 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:546579 CAPLUS
DN 141:87910
→ TI Process for the production of amino acids without trehalose
IN Klopprogge, Corinna; Zelder, Oskar; Kroeger, Burkhard; Schroeder, Hartwig; Haefner, Stefan; Liebl, Wolfgang
SO PCT Int. Appl., 34 pp. Filing Date 2003/12/19 ⇒Look L3
CODEN: PIXXD2

L14 ANSWER 12 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:519828 CAPLUS
DN 142:129243
TI Three-dimensional models and structure analysis of corynemycolyltransferases in Corynebacterium glutamicum and Corynebacterium efficiens
AU Adindla, Swathi; Guruprasad, Kunchur; Guruprasad, Lalitha
SO International Journal of Biological Macromolecules (2004), 34(3), 181-189
CODEN: IJBMDR; ISSN: 0141-8130

L14 ANSWER 13 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:209240 CAPLUS
DN 141:406482
TI Global expression analysis of the characterization of lysin production in Corynebacterium glutamicum
AU Sindelar, Georg
SO Berichte des Forschungszentrums Juelich (2003), Juel-4092, 1-146
CODEN: FJBEE5; ISSN: 0944-2952

L14 ANSWER 14 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:325869 CAPLUS
DN 141:139163
TI Quantification of intracellular fluxes under instationary growth conditions and utilization of substrate mixtures in Corynebacterium glutamicum
AU Drysch, Andre
SO Berichte des Forschungszentrums Juelich (2003), Juel-4103, i-viii, 1-110
CODEN: FJBEE5; ISSN: 0944-2952

L14 ANSWER 15 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:377125 CAPLUS
DN 138:380501
TI Genes for biosynthetic enzymes and transport proteins of Corynebacterium glutamicum and their use in engineering metabolism for fermentation of commercially useful substances
IN Zelder, Oskar; Pompejus, Markus; Schroeder, Hartwig; Kroeger, Burkhard;

Klopprogge, Corinna; Haberhauer, Gregor
SO PCT Int. Appl., 328 pp. Filing Date 2002/10/31
CODEN: PIXXD2

L14 ANSWER 16 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:133477 CAPLUS
DN 138:182054
TI Production of L-amino acids by Corynebacterium glutamicum strains with attenuated otsB, treY or treZ genes
IN Wolf, Andreas; Schischka, Natalie; Hermann, Thomas; Morbach, Susanne; Kraemer, Reinhard
SO PCT Int. Appl., 57 pp. Filing Date 2002/05/14
CODEN: PIXXD2

L14 ANSWER 17 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:7020 CAPLUS
DN 143:381605
TI Cloning, expression and sequence analysis of a cluster of genes encoding new trehalose-producing enzymes from thermophilic archaebacterium Sulfolobus shibatae B12
AU Wu, Jin; Yu, Weiting; Wang, Hui; Liu, Li; Wang, Shaoxiao; Zhang, Shuzheng
SO Shengwu Huaxue Yu Shengwu Wuli Jinzhan (2003), 30(5), 798-802
CODEN: SHYCD4; ISSN: 1000-3282

L14 ANSWER 18 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:673420 CAPLUS
DN 140:4105
TI Metabolic phenotype of phosphoglucose isomerase mutants of Corynebacterium glutamicum
AU Marx, Achim; Hans, Stephan; Mockel, Bettina; Bathe, Brigitte; de Graaf, Albert A.
SO Journal of Biotechnology (2003), 104(1-3), 185-197
CODEN: JBITD4; ISSN: 0168-1656

L14 ANSWER 19 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:211544 CAPLUS
DN 140:369706
TI Molecular cloning and nucleotide sequence of a gene encoding a glycogen debranching enzyme in the trehalose operon from Brevibacterium helvolum
AU Kim, Chung Ho
SO Agricultural Chemistry and Biotechnology (English Edition) (2003), 46(4), 144-147
CODEN: ACBTFF; ISSN: 1229-2737

L14 ANSWER 20 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:523043 CAPLUS
DN 139:275766
TI Production process monitoring by serial mapping of microbial carbon flux distributions using a novel Sensor Reactor approach: II-13C-labeling-based metabolic flux analysis and l-lysine production
AU Drysch, A.; El Massaoudi, M.; Mack, C.; Takors, R.; de Graaf, A. A.; Sahm, H.
SO Metabolic Engineering (2003), 5(2), 96-107
CODEN: MEENFM; ISSN: 1096-7176

L14 ANSWER 21 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:523354 CAPLUS
DN 139:319804
TI New insights into the biogenesis of the cell envelope of Corynebacteria: identification and functional characterization of five new mycoloyltransferase genes in Corynebacterium glutamicum
AU De Sousa-D'Auria, Celia; Kacem, Raoudha; Puech, Virginie; Tropis,

Marielle; Leblon, Gerard; Houssin, Christine; Daffe, Mamadou
SO FEMS Microbiology Letters (2003), 224(1), 35-44
CODEN: FMLED7; ISSN: 0378-1097

L14 ANSWER 22 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:487897 CAPLUS
DN 140:141462
TI Identification and functional analysis of six mycolyltransferase genes of Corynebacterium glutamicum ATCC 13032: the genes cop1, cmt1, and cmt2 can replace each other in the synthesis of trehalose dicorynomycolate, a component of the mycolic acid layer of the cell envelope
AU Brand, Sven; Niehaus, Karsten; Puehler, Alfred; Kalinowski, Joern
SO Archives of Microbiology (2003), 180(1), 33-44
CODEN: AMICCW; ISSN: 0302-8933

L14 ANSWER 23 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:671716 CAPLUS
DN 137:180754
TI Procedure for the modification of the genome of gram-positive bacteria with a new conditional negatively dominant marker gene
IN Pompejus, Markus; Kroeger, Burkhard; Schroeder, Hartwig; Zelder, Oskar
SO Ger. Offen., 12 pp.
CODEN: GWXXBX

L14 ANSWER 24 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:225316 CAPLUS
DN 134:247993
TI Corynebacterium gene gpi and methods for producing amino acids, vitamins, and nucleotides with Coryneform bacteria
IN Dunican, L. K.; McCormback, Ashling; Stapelton, Cliona; Burke, Kevin; O'Donohue, Michael; Marx, Achim; Mockel, Bettina
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW

US Filing Date 1999/09/15
EP Filing Date 2000/08/23

L14 ANSWER 25 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:777105 CAPLUS
DN 135:283976
TI Cloning of gene encoding Brevibacterium maltooligosyltrehalose synthase and maltooligosyltrehalose trehalohydrolase for trehalose biosynthesis
IN Choi, Yang Do; Kim, Jeong Ho; Kwon, Tae Geun; Kim, Ju Gon; Kim, Yong Hwan; Lee, Jong Seob; Seo, Hak Su; Lim, Jae Yun; Pakr, Seong Sun
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7

L14 ANSWER 26 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2000:798820 CAPLUS
DN 134:174635
TI Trehalose synthesis by sequential reactions of recombinant maltooligosyltrehalose synthase and maltooligosyltrehalose trehalohydrolase from Brevibacterium helvolum
AU Kim, Yong Hwan; Kwon, Tae Keun; Park, Sungsoon; Seo, Hak Soo; Cheong, Jong-Joo; Kim, Chung Ho; Kim, Ju-Kon; Lee, Jong Seob; Choi, Yang Do
SO Applied and Environmental Microbiology (2000), 66(11), 4620-4624
CODEN: AEMIDF; ISSN: 0099-2240

L14 ANSWER 27 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:684505 CAPLUS
DN 127:345382
TI Method for producing an amino acid by fermenting Corynebacteria expressing trehalase activity

trehalase hydrolysing activity

IN Wojcik, Franck; Zuliani, Vincent
SO PCT Int. Appl., 35 pp. → Filing Date 1997/04/09
CODEN: PIXXD2

WO 1997-FR625
WO 9738111
1997/10/16

L14 ANSWER 28 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:207030 CAPLUS
DN 124:337568
TI Changes in intracellular composition in response to hyperosmotic stress of NaCl, sucrose or glutamic acid in Brevibacterium lactofermentum and Corynebacterium glutamicum
AU Skjerdal, O. T.; Sletta, H.; Flenstad, S. G.; Josefsen, K. D.; Levine, D. W.; Ellingsen, T. E.
SO Applied Microbiology and Biotechnology (1996), 44(5), 635-42
CODEN: AMBIDG; ISSN: 0175-7598

L14 ANSWER 29 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:693949 CAPLUS
DN 126:101581
TI Growth of Corynebacterium glutamicum in ammonium- and potassium-limited continuous cultures under high osmotic pressure
AU Guillouet, S.; Engasser, J. M.
SO Applied Microbiology and Biotechnology (1996), 46(3), 291-296
CODEN: AMBIDG; ISSN: 0175-7598

L14 ANSWER 30 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1995:990677 CAPLUS
DN 124:24866
TI Non-reducing saccharide-forming cellulases and the genes encoding them and their preparations and uses
IN Kubota, Michio; Tsusaki, Keiji; Maruta, Kazuhiko; Sugimoto, Toshiyuki
SO Eur. Pat. Appl., 178 pp.
CODEN: EPXXDW

L14 ANSWER 31 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:203852 CAPLUS
DN 124:337549
TI Growth of Corynebacterium glutamicum in glucose-limited continuous cultures under high osmotic pressure. Influence of growth rate on the intracellular accumulation of proline, glutamate and trehalose
AU Guillouet, S.; Engasser, J. M.
SO Applied Microbiology and Biotechnology (1995), 44(3-4), 496-500
CODEN: AMBIDG; ISSN: 0175-7598

L14 ANSWER 32 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:573949 CAPLUS
DN 121:173949
TI Non-reducing saccharide-forming enzyme, and its purification from microorganisms, its uses
IN Maruta, Kazuhiko; Sugimoto, Toshiyuki; Kubota, Michio; Miyake, Toshio
SO Eur. Pat. Appl., 42 pp.
CODEN: EPXXDW

L14 ANSWER 33 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:232380 CAPLUS
DN 118:232380
TI Improvement of amino acid manufacture with coryneform bacteria
IN Kircher, Manfred; Guenther, Kurt; Bachmann, Bernd
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW

Not English

Filed 1992/08/17
EP 1992-114012

Pat. No. EP 0537443
1993/04/21

L14 ANSWER 34 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1992:150157 CAPLUS
DN 116:150157
TI Manufacture of amino acids with microorganisms and trehalase
IN Kawahara, Yoshio; Murakami, Yutaka; Yoshihara, Yasuhiko; Nagayama, Kozo; Horikoshi, Koki
SO Jpn. Kokai Tokkyo Koho, 5 pp.
CODEN: JKXXAF

L14 ANSWER 35 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1985:436079 CAPLUS
DN 103:36079
TI Natural-abundance carbon-13 nuclear magnetic resonance studies of regulation and overproduction of L-lysine by Brevibacterium flavum
AU Inbar, Livia; Kahana, Zvi E.; Lapidot, Aviva
SO European Journal of Biochemistry (1985), 149(3), 601-7
CODEN: EJBCAI; ISSN: 0014-2956

L14 ANSWER 36 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1973:146203 CAPLUS
DN 78:146203
TI Production of sugars and amino acids from hydrocarbons and petrochemicals by microorganisms
AU Tanaka, K.; Suzuki, T.; Okumura, S.
SO World Petrol. Congr., Proc., 8th (1971), Volume 5, 165-70 Publisher: Appl. Sci. Publ. Ltd., London, Engl.
CODEN: 26KOAU

L14 ANSWER 37 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1970:63781 CAPLUS
DN 72:63781
TI Composition of the phospholipid fraction of Corynebacterium diphtheriae
AU Brennan, Patrick J.; Lehane, Derek P.
SO Biochemical Journal (1969), 115(3), 8P
CODEN: BIJOAK; ISSN: 0264-6021

L14 ANSWER 38 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1961:38558 CAPLUS
DN 55:38558
OREF 55:7551i,7552a-b
TI Carbohydrates in the structure and the lipide complexes of diphtheria bacteria
AU Alimova, E. K.
SO Uglevody i Uglevodnyi Obmen v Zhivotnom i Rastitel'nom Organizmakh, Materialy Konf., Moscow (1959), Volume Date 1958 255-61

L14 ANSWER 39 OF 39 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1958:56739 CAPLUS
DN 52:56739
OREF 52:10280e-h
TI Bound lipides of diphtherial microorganisms obtained with the use of acidified organic solvents
AU Alimova, E. K.
SO Ukrains'kii Biokhimichnii Zhurnal (1946-1977) (1958), 30, 52-62
CODEN: UBZHAZ; ISSN: 0372-3909

STN
10/801847

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=> file caplus

=> s 2005:1331381/an
L1            1 2005:1331381/AN

=> d l1

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:1331381  CAPLUS
DN   144:68678
TI   Genetic engineering of Corynebacterium glutamicum for enhanced lysine
     production
IN   Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan;
     Kroeger, Burkhard; Kiefer, Patrick; Heinzle, Elmar; Wittmann, Christoph
PA   Basf Aktiengesellschaft, Germany
SO   PCT Int. Appl., 90 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   WO 2005121349         A2    20051222    WO 2004-IB4463          20041217
PRAI WO 2003-IB6464        A     20031218


=> s 2005:571006/an
L2            1 2005:571006/AN

=> d l2

L2   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:571006  CAPLUS
DN   143:95916
TI   Fermentative production of lysine by genetically engineered
     Corynebacterium glutamicum
IN   Zelder, Oskar; Klopprogge, Corinna; Schroeder, Hartwig; Haefner, Stefan;
     Kroeger, Burkhard; Kiefer, Patrick; Heinzle, Elmar; Wittmann, Christoph
PA   BASF Aktiengesellschaft, Germany
SO   PCT Int. Appl., 89 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   WO 2005059154         A2    20050630    WO 2004-IB4426          20041217
     WO 2005059154         A3    20051013
PRAI WO 2003-IB6435        A     20031218


=> s 2004:546579/an
L3            1 2004:546579/AN

=> d l3

L3   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
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AN 2004:546579 CAPLUS
DN 141:87910
TI Process for the production of amino acids without trehalose
IN Klopprogge, Corinna; Zelder, Oskar; Kroeger, Burkhard; Schroeder, Hartwig;
Haefner, Stefan; Liebl, Wolfgang
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004057009	A1	20040708	WO 2003-EP14580	20031219
	DE 10261579	A1	20040715	DE 2002-10261579	20021223
	EP 1578979	A1	20050928	EP 2003-795933	20031219
	BR 2003017507	A	20051116	BR 2003-17507	20031219
PRAI	DE 2002-10261579	A	20021223		
	WO 2003-EP14580	W	20031219		

=> s 2003:133477/an
L4 1 2003:133477/AN

=> d l4

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:133477 CAPLUS
DN 138:182054
TI Production of L-amino acids by Corynebacterium glutamicum strains with attenuated otsB, treY or treZ genes
IN Wolf, Andreas; Schischka, Natalie; Hermann, Thomas; Morbach, Susanne; Kraemer, Reinhard
PA Degussa AG, Germany
SO PCT Int. Appl., 57 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003014370	A2	20030220	WO 2002-EP5264	20020514
	WO 2003014370	A3	20031211		
	DE 10139062	A1	20030430	DE 2001-10139062	20010809
	EP 1414952	A2	20040506	EP 2002-740596	20020514
	US 2003092139	A1	20030515	US 2002-212219	20020806
	US 2005266536	A1	20051201	US 2005-124291	20050509
PRAI	DE 2001-10139062	A	20010809		
	US 2001-316276P	P	20010904		
	WO 2002-EP5264	W	20020514		
	US 2002-212219	A3	20020806		

=> s 2001:225316/an
L5 1 2001:225316/AN

=> d l5

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:225316 CAPLUS
DN 134:247993
TI Corynebacterium gene gpi and methods for producing amino acids, vitamins,
and nucleotides with Coryneform bacteria
IN Dunican, L. K.; McCormback, Ashling; Stapelton, Cliona; Burke, Kevin; O'Donohue, Michael; Marx, Achim; Mockel, Bettina
PA Degussa-Huls A.-G., Germany; National University of Ireland
SO Eur. Pat. Appl., 32 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1087015	A2	20010328	EP 2000-118052	20000823
	EP 1087015	A3	20030709		
	US 6586214	B1	20030701	US 1999-396478	19990915
	CA 2318507	AA	20010315	CA 2000-2318507	20000913
	ZA 2000004911	A	20020313	ZA 2000-4911	20000914
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	BR 2000004208	A	20010410	BR 2000-4208	20000915
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PRAI	US 1999-396478	A	19990915		

=> s 1997:684505/an
L6 1 1997:684505/AN

=> d l6

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:684505 CAPLUS
DN 127:345382
TI Method for producing an amino acid by fermenting Corynebacteria expressing
trehalase activity
IN Wojcik, Franck; Zuliani, Vincent
PA Orsan, Fr.
SO PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DT Patent
LA French
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9738111	A1	19971016	WO 1997-FR625	19970409
	FR 2747131	A1	19971010	FR 1996-4415	19960409
	FR 2747131	B1	19980626		
PRAI	FR 1996-4415	A	19960409		

=> s 1973:146203/an

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L7            1 1973:146203/AN

=> d l7

L7   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1973:146203  CAPLUS
DN   78:146203
TI   Production of sugars and amino acids from hydrocarbons and
petrochemicals
     by microorganisms
AU   Tanaka, K.; Suzuki, T.; Okumura, S.
CS   Tokyo Res. Lab., Kyowa Kakko Kogyo Co., Ltd., Tokyo, Japan
SO   World Petrol. Congr., Proc., 8th (1971), Volume 5, 165-70 Publisher:
Appl.
     Sci. Publ. Ltd., London, Engl.
     CODEN: 26KOAU
DT   Conference; General Review
LA   English


=> s 2003:377125/an
L1            1 2003:377125/AN

=> d l1

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2003:377125  CAPLUS
DN   138:380501
TI   Genes for biosynthetic enzymes and transport proteins of Corynebacterium
     glutamicum and their use in engineering metabolism for fermentation of
     commercially useful substances
IN   Zelder, Oskar; Pompejus, Markus; Schroeder, Hartwig; Kroeger, Burkhard;
     Klopprogge, Corinna; Haberhauer, Gregor
PA   BASF Aktiengesellschaft, Germany
SO   PCT Int. Appl., 328 pp.
     CODEN: PIXXD2
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
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PI   WO 2003040681       A2     20030515    WO 2002-EP12141          20021031
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     DE 10154292         A1     20030515    DE 2001-10154292         20011105
     EP 1444343          A2     20040811    EP 2002-783046           20021031
     BR 2002013774       A      20041013    BR 2002-13774            20021031
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     ZA 2004004426       A      20050606    ZA 2004-4426             20040604
PRAI DE 2001-10154292    A      20011105
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=> s 1993:232380/an
L1            1 1993:232380/AN

=> d l1

L1   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1993:232380  CAPLUS
DN   118:232380
TI   Improvement of amino acid manufacture with coryneform bacteria
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IN Kircher, Manfred; Guenther, Kurt; Bachmann, Bernd
PA Degussa A.-G., Germany
SO Eur. Pat. Appl., 7 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

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PI	EP 537443	A1	19930421	EP 1992-114012	19920817
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	R: BE, DE, ES, FR, GB, IT, NL				
	DE 4134450	A1	19930422	DE 1991-4134450	19911018
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PRAI	DE 1991-4134450	A	19911018		

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Search Summary

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L2             0 S (2 4 1 15)/EC
L3             0 S (2 4 1 15)/EN
L4             8 S (2 4 1 15)
L5             1 S 9030-07-3/RN

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L7           289 S L5
L8             9 S L7 AND (CORYNEFORM OR CORYNEBACTERI? OR BREVIBACTER?)

L4   ANSWER 8 OF 8  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   9030-07-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Glucosyltransferase, uridine diphosphoglucose-glucose phosphate (9CI)  (CA
     INDEX NAME)
OTHER NAMES:
CN   .alpha..alpha.-Trehalose phosphate synthase (UDP-forming)
CN   E.C. 2.4.1.15
CN   Phosphotrehalose-uridine diphosphate transglucosylase
CN   Trehalose 6-phosphate synthase
CN   Trehalose 6-phosphate synthetase
CN   Trehalose phosphate synthase
CN   Trehalose phosphate synthetase
CN   Trehalose phosphate-uridine diphosphate glucosyltransferase
MF   Unspecified
CI   MAN

=> d 1-9

L8   ANSWER 1 OF 9  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:1277444  CAPLUS
DN   144:1330
TI   Corynebacterium glutamicum genes encoding metabolic pathway
     proteins and their use for the production of fine chemicals
IN   Pompejus, Markus; Kroger, Burkhard; Schroder, Hartwig; Zelder, Oskar;
     Haberhauer, Gregor
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
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PI   US 2005260707        A1    20051124    US 2005-55822           20050211
     CA 2383865           AA    20010104    CA 2000-2383865         20000623
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L8 ANSWER 2 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:43850 CAPLUS
TI Genes involved in biosynthesis and metabolism of trehalose and their Use in biotechnology
AU Ren, Yuanyuan; Liu, Jingfang; Dai, Xiuyu; Xiang, Hua
SO Weishengwu Xuebao (2003), 43(6), 821-825
DT Journal; General Review
LA Chinese

L8 ANSWER 3 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:611429 CAPLUS
TI Impact of heterologous expression of Escherichia coli UDP-glucose pyrophosphorylase on trehalose and glycogen synthesis in Corynebacterium glutamicum
AU Padilla, Leandro; Morbach, Susanne; Kraemer, Reinhard; Agosin, Eduardo
SO Applied and Environmental Microbiology (2004), 70(7), 3845-3854

L8 ANSWER 4 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:69246 CAPLUS
TI Overproduction of trehalose: Heterologous expression of Escherichia coli trehalose-6-phosphate synthase and trehalose-6-phosphate phosphatase in Corynebacterium glutamicum
AU Padilla, Leandro; Kraemer, Reinhard; Stephanopoulos, Gregory; Agosin, Eduardo
SO Applied and Environmental Microbiology (2004), 70(1), 370-376

L8 ANSWER 5 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:573259 CAPLUS
TI The otsA gene of Corynebacterium glutamicum encoding a trehalose-6-phosphate synthase and its use in increasing yields of lysine in fermentation
IN Hermann, Thomas; Wolf, Andreas; Morbach, Susanne; Kraemer, Reinhard

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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	WO 2002061093	A1	20020808	WO 2001-EP12221	20011023
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PRAI	DE 2001-10103873	IA	20010130		
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L8 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:504549 CAPLUS
TI Genes of Corynebacterium glutamicum useful for microbial engineering for fermentative production of compounds and for diagnosing infection
IN Pompejus, Markus; Kroeger, Burkhard; Zelder, Oskar; Schroeder, Hartwig

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI ✓	WO 2002051231	A1	20020704	WO 2000-EP13143	20001222
	JP 2004524827	T2	20040819	JP 2002-552391	20001222
	US 2004043953	A1	20040304	US 2003-450055	20030610
PRAI	WO 2000-EP13143	W	20001222		

L8 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:89878 CAPLUS
TI Methods for identifying therapeutic targets for treating infectious disease
IN Shepard, Michael H.; Lackey, David B.; Cathers, Brian E.; Sergeeva, Maria V.

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002007780	A2	20020131	WO 2001-US23095	20010720
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	AU 2001077093	A5	20020205	AU 2001-77093	20010720
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PRAI	US 2000-219598P	P	20000720		
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	WO 2001-US23095	W	20010720		

L8 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2002:56555 CAPLUS
TI Knocking out trehalose 6-phosphate synthase and maltooligosyltrehalose synthase in Brevibacterium lactofermentum to block trehalose synthesis
IN Otaki, Hiromi; Nakamura, Jun; Izui, Hiroshi; Nakamatsu, Wataru

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2002017364	A2	20020122	JP 2000-204256	20000705
	US 2002137150	A1	20020926	US 2001-895382	20010702
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	BR 2001002669	A	20020305	BR 2001-2669	20010704
	CN 1335394	A	20020213	CN 2001-121741	20010705
PRAI	JP 2000-204256	A	20000705		

L8 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2001:453263 CAPLUS
TI Moss genes from Physcomitrella patens encoding proteins involved in the synthesis of carbohydrates
IN Lerchl, Jens; Renz, Andreas; Ehrhardt, Thomas; Reindl, Andreas; Cirpus, Petra; Bischoff, Friedrich; Frank, Markus; Freund, Annette; Duwenig, Elke; Schmidt, Ralf-Michael; Reski, Ralf

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PRAI	US 1999-171101P	P	19991216		

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All: 4 Review: 0

Items 1 - 4 of 4 One page.

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